

ABSTRACT OF THE DISCLOSURE

SECURE NETWORK IDENTIFICATION

A processing unit is connectable to a data communications network. The processing
5 unit includes a device reader for a portable storage device. The portable storage
device (e.g., a secure smart card) includes storage operable to supply a network
identity for the processing unit and an access controller. The access controller is
operable to prevent unauthorised writing to the storage. Before reading the network
identity from the portable storage device, the processing device attempts a write to the
10 storage of the portable storage device, and, only on determining that the write has
failed, reads the supplied network identity. The processing unit is thereby able to
check that the portable storage device is a valid secure data storage device and not a
counterfeit portable storage device. If it is a genuine secure portable storage device,
the write access will not be permitted, whereas if it is a non-secure portable storage
15 device, there is a risk that it is a counterfeit. The access control logic of the portable
storage device can be operable to implement key-to-key encryption. The processing
unit can be operable to modify the content of the storage of the portable storage device
by supplying a key to the access controller, and, in response to receipt of a return key
from the access controller, to send an encrypted command to modify the content of the
20 storage of the portable storage device.

Fig. 9